

U.S. Coast Guard Night Vision

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Office of Command and Control
Architecture

Coast Guard Missions

- Search and Rescue
- Law Enforcement
- Marine Safety and Environmental Protection
- Defense Operations

Night Vision Requirements

- High speed boats
- Large cutters
- Fixed and rotary wing aircraft
- Shore activities

Program Approach

- An integrated sensing strategy
- Partner with other agencies for expertise/support (NAVSEA and NSWC Crane Division)
- Continuous recapitalization and technology refreshment

Program Approach (cont'd)

- Handheld short range sensors (0-5 KM)
- Stabilized systems for medium range (0-15 KM)
- High value Long range systems (15 KM+)

Current Programs

- Surface Night Vision
 - Night Vision Goggles
 - Night Vision Scopes
 - Handheld Thermal Imagers
 - Stabilized FLIR
- Aviation-Various fixed and rotary wing programs

AN/PVS-7C



- This unit is a self contained, submersible night vision goggle that may be worn on the head to provide “hands free” low light viewing or may be hand-held. An internal 18 mm GEN III Image Intensifier tube amplifies available light such as moonlight, starlight, sky glow and very limited artificial light so the scene becomes visible to the operator.

AN/PVS-8A



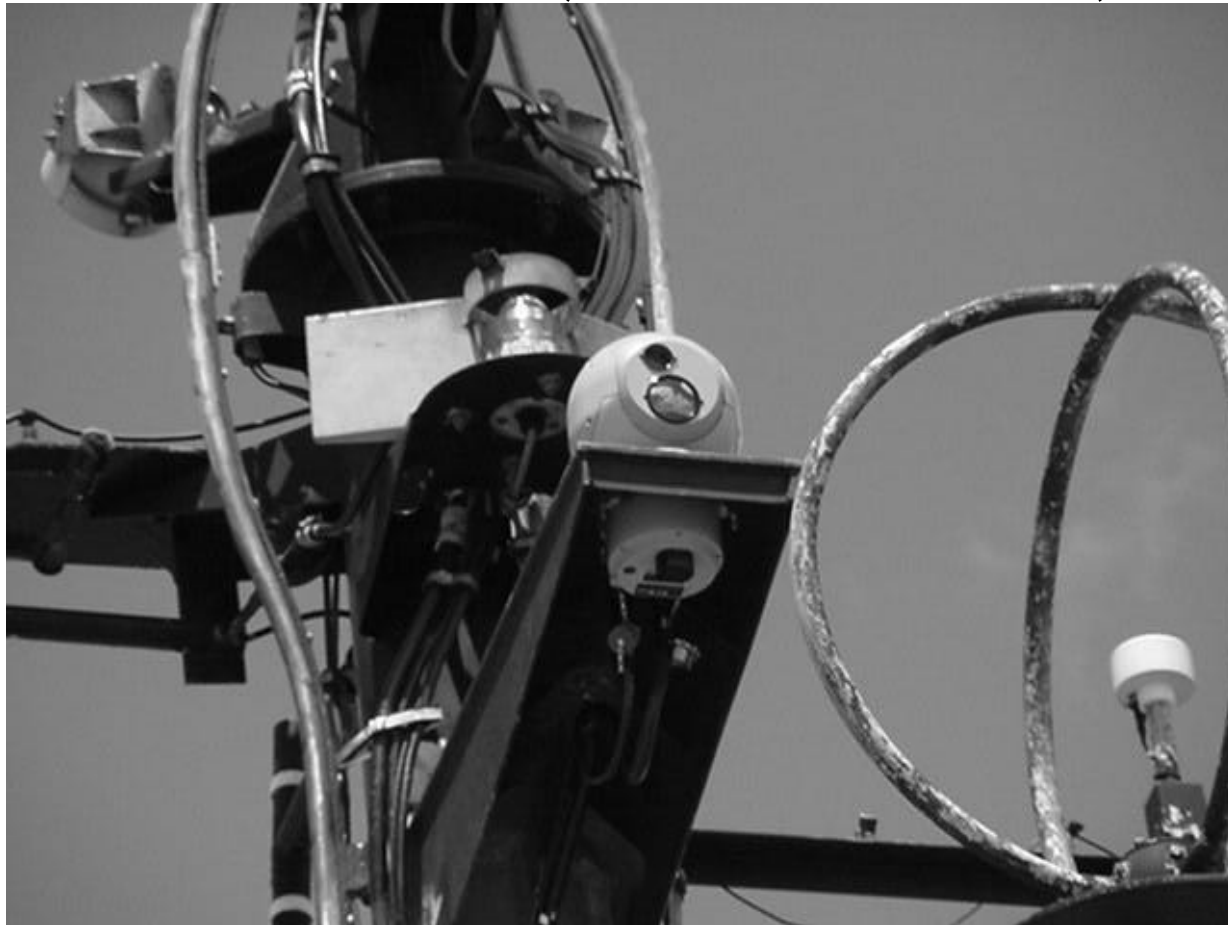
- This system is a portable, shipboard mounted, Electro-optical instrument used for long range surveillance with a magnification property of 6.2x. An internal 25 mm GENIII Image Intensifier tube amplifies available light such as moonlight, starlight and sky glow, so the scene becomes visible to the operator

MILCAM XP PLUS



- This hand-held high performance thermal imager with integral, high-resolution CRT viewfinder, is lightweight and portable. The IR camera senses thermal (heat) energy instead of visible light allowing the user to see in total darkness, through smoke, and in other low visibility, low contrast situations. It is also used in daytime to see heat generated images when visual observation cannot distinguish a target from its background..

Maritime Forward Looking Infrared (MARFLIR)



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Aviation

- ANVIS-6/9
- HC-130 Sensor Upgrade
- HU-25 Sensor Upgrade
- HH65 FLIR
- A109 FLIR
- HH60 FLIR

Future

- Expansion of handheld sensors
- Expansion of stabilized systems to patrol boat level
- Continued upgrade of aircraft

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